

JUL 30 2004

PATENT & TRADEMARK OFFICE Und

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1


<b>Application Number</b>	10/721,034
<b>Filing Date</b>	November 24, 2003
<b>First Named Inventor</b>	Mast, T. Douglas
<b>Group Art Unit</b>	Not assigned
<b>Examiner Name</b>	Dennis Ruhl
<b>Attorney Docket Number</b>	END-5042CIP

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	(11/27/07)
--------------------	---	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**

Page 1 of 1

<b>Application Number</b>	10/721,034
<b>Filing Date</b>	November 24, 2003
<b>First Named Inventor</b>	Mast, T. Douglas
<b>Group Art Unit</b>	Not assigned
<b>Examiner Name</b>	Dennis Ruhl
<b>Attorney Docket Number</b>	END-5042CIP

## U.S. PATENT DOCUMENTS


[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

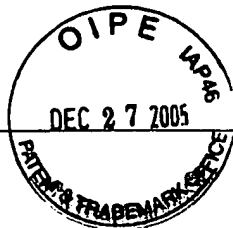
## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

[illegible]

Examiner Signature		Date Considered	(11/27/07)
-----------------------	---	--------------------	------------

## INFORMATION DISCLOSURE CITATION

Page 1 of 1



Docket: END5042USCIP1

Appln. No. 10/721,034

Applicant: T. Douglas Mast

Filed: November 24, 2003

Group: 3737

## U.S. PATENT DOCUMENTS

Examiner	Document No.	Date	Name	Class	Sub	
	3,779,234	12/1973	Eggleton et al.			
	6,340,352	01/2002	Okada et al.			

## FOREIGN PATENT DOCUMENT

Examiner	Document No.	Date	Country	Class	Sub	Trans	
	9098980	04/1997	Japan			Y	N

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


Examiner:

Date Considered: (11/27/07)

\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

#414670

INFORMATION DISCLOSURE CITATION		Docket: END-5042	Appln. No. 10/721,034
Page 1 of 1		Applicant: T. Douglas Mast	
		Filed: November 24, 2003	Group: 3737



### U.S. PATENT DOCUMENTS

Examiner	Document No.	Date	Name	Class	Sub	
<i>[Handwritten mark]</i>	2003/0120306	06/2003	Burbank et al.			
	5,398,690	03/1995	Batten et al.			
	5,421,338	06/1995	Crowley et al.			
	5,603,326	02/1997	Richter			
	5,810,742	09/1998	Pearlman			
	5,840,022	11/1998	Richter			
	6,013,031	01/2000	Mendlein et al.			
	6,156,029	12/2000	Mueller			
	6,159,207	12/2000	Yoon			
	6,461,314	10/2002	Pant et al.			
	6,659,949	12/2003	Lang et al.			
<i>[Handwritten mark]</i>	6,702,745	03/2004	Smythe			


### FOREIGN PATENT DOCUMENT

Examiner	Document No.	Date	Country	Class	Sub	Y	N	Trans

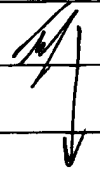
### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner: <i>[Signature]</i>	Date Considered: <i>(11/27/07)</i>		


\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION		Docket: END-5042	Appln. No. 10/721,034
Page 1 of 1		Applicant: T. Douglas Mast	
		Filed: 11/24/2003	Group: 3737


### U.S. PATENT DOCUMENTS

Examiner	Document No.	Date	Name	Class	Sub	
	5,471,988	12/1995	Fujio et al.			
	5,776,092	07/1998	Farin et al.			
	6,149,598	11/2000	Tanaka			


### FOREIGN PATENT DOCUMENT

Examiner	Document No.	Date	Country	Class	Sub	Trans	
	01/97702	12/2001	Patent Cooperation Treaty			Y	N

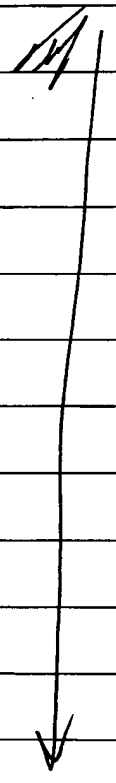
### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner: 	Date Considered: (11/27/07)	

\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION Page 1 of 1 	Docket: END5042	Appln. No. 10/721,034
	Applicant: T. Douglas Mast	
	Filed: November 24, 2003	Group: 3737


### U.S. PATENT DOCUMENTS

Examiner	Document No.	Date	Name	Class	Sub	
	5,065,740	11/1991	Itoh			
	5,421,338	06/1995	Crowley et al.			
	5,492,126	02/1996	Hennige et al.			
	5,569,241	10/1996	Edwards			
	5,762,066	06/1998	Law et al.			
	5,810,742	09/1998	Pearlman			
	5,964,755	10/1999	Edwards			
	6,071,279	06/2000	Whayne et al.			
	6,156,029	12/2000	Mueller			
	6,159,207	12/2000	Yoon			
	6,266,552	07/2001	Slettenmark			
	6,461,314	10/2002	Pant et al.			

### FOREIGN PATENT DOCUMENT

							Trans	
Examiner	Document No.	Date	Country	Class	Sub		Y	N

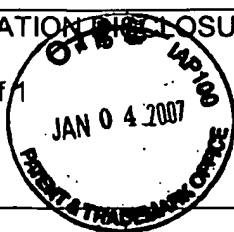
### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner: 	Date Considered: (11/27/07)	

\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609.  
 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION ENCLOSURE CITATION

Page 1 of 1



Docket: END-5042

Appln. No. 10/721,034

Applicant: Douglas T. Mast

Filed: November 24, 2003

Group: 3737

U.S. PATENT DOCUMENTS

Examiner	Document No.	Date	Name	Class	Sub	
<i>[Signature]</i>	5,514,085	05/1996	Yoon			
<i>[Signature]</i>	6,602,251	08/2003	Burbank et al.			

FOREIGN PATENT DOCUMENT

Examiner	Document No.	Date	Country	Class	Sub	Trans	Y	N

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner: <i>[Signature]</i>	Date Considered: (11/27/07)	

\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

7-5-07





PTO/SB/08a (05-07)

Approved for use through 09/30/2007. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.


<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10721034	
	Filing Date		2003-11-24	
	First Named Inventor	T. Douglas Mast		
	Art Unit	3768		
	Examiner Name	Francis J. Jaworski		
	Attorney Docket Number	END5042USCIP		

U.S. PATENTS							Remove	
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1	5928169		1999-07-27	Schatzle et al.			
	2	6159207		2000-12-12	Yoon			
If you wish to add additional U.S. Patent citation information please click the Add button.							Add	
U.S. PATENT APPLICATION PUBLICATIONS							Remove	
Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1							
If you wish to add additional U.S. Published Application citation information please click the Add button.							Add	
FOREIGN PATENT DOCUMENTS							Remove	
Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> j	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	09-192139	JP		1997-07-29	Olympus Optical Co. Ltd.		<input type="checkbox"/>
	2	04-307044	JP		1992-10-29	Olympus Optical Co. Ltd.		<input type="checkbox"/>



**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10721034
Filing Date	2003-11-24
First Named Inventor	T. Douglas Mast
Art Unit	3768
Examiner Name	Francis J. Jaworski
Attorney Docket Number	END5042USCIP

	3	08-084470	JP		1996-03-26	Origin Electric Co. Ltd.	<input type="checkbox"/>
--	---	-----------	----	--	------------	--------------------------	--------------------------


If you wish to add additional Foreign Patent Document citation information please click the Add button

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1		<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

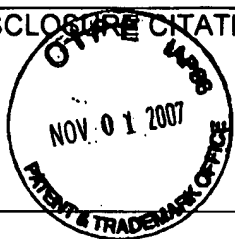
**EXAMINER SIGNATURE**

Examiner Signature		Date Considered	11/27/07
--------------------	---	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.





INFORMATION DISCLOSURE CITATION Page 1 of 1	Docket: END5042USCIP		Appln. No. 10/721,034	
	Applicant: T. Douglas Mast			
	Filed: November 24, 2003		Group: 3768	



### U.S. PATENT DOCUMENTS

Examiner	Document No.	Date	Name	Class	Sub	
<i>[Signature]</i>	5,931,805	08/03/1999	Briskin			
<i>[Signature]</i>	6,371,973	04/16/2002	Tepper			

### FOREIGN PATENT DOCUMENT

FOREIGN PATENT DOCUMENT								
Examiner		Document No.	Date	Country	Class	Sub	Y	N
		04-307044	10/29/1992	JP				
		10-511477	11/04/1998	JP				
		09-192139	07/29/1997	JP				
		08-084740	04/02/1996	JP				

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

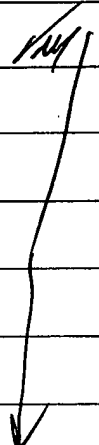
Examiner: <i>[Signature]</i>	Date Considered: 11/27/07

\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

11-5-07

INFORMATION DISCLOSURE CITATION Page 1 of 1	Docket: END5042USCIP	Appln. No. 10/721,034
	Applicant: T. Douglas Mast	
	Filed: November 24, 2003	Group: 3768


U.S. PATENT DOCUMENTS

Examiner	Document No.	Date	Name	Class	Sub	
	5,687,729	11/1997	Schaetzle			
	5,769,790	06/1998	Watkins et al.			
	6,050,943	04/2000	Slayton et al.			
	6,106,517	08/2000	Zupkas			
	6,156,029	12/2000	Mueller			
	6,340,352	01/2002	Okada et al.			
	6,575,969	06/2003	Rittman et al.			

FOREIGN PATENT DOCUMENT

							Trans	
Examiner	Document No.	Date	Country	Class	Sub	Y	N	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


Examiner: 	Date Considered: 11/27/07	

\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609.  
Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.




11-14-07

INFORMATION DISCLOSURE CITATION Page 1 of 1	Docket: END5042USCIP	Appln. No. 10/721,034
	Applicant: T. Douglas Mast	
	Filed: November 24, 2003	Group: 3768


## U.S. PATENT DOCUMENTS

Examiner		Document No.	Date	Name	Class	Sub	
		3,779,234	12/18/1973	Eggleton et al.			
		5,042,486	08/27/1991	Pfeiler et al.			
		6,059,731	05/09/2000	Seward et al.			
		6,083,159	07/04/2000	Driscoll et al.			

## FOREIGN PATENT DOCUMENT

Examiner		Document No.	Date	Country	Class	Sub	Trans	Y	N
		97/29709	08/21/1997	WO					
		99/33500	07/08/1999	WO					
		01/43641	06/21/2001	WO					

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner: 	Date Considered: 11/27/07	

\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.